

PERSONAL INFORMATION

First name / Last name

JAIME JIMÉNEZ

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Website

<http://jaimejim.github.io/about/>

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+358-442-992-827

Date of birth

April 28, 1983

WORK EXPERIENCE

Dates

December 2008 - Ongoing

Occupation or position held

Senior Researcher – Internet of Things / Product Unit – System Architect

Main activities and responsibilities

- Architecture, design and insights on the best available technologies to build Ericsson's [AppIoT](#) product in the role of Solution Architect. Our solution uses protocols I help design LWM2M, CoAP and IPSO Data Models. I worked mostly on Java, Robot and JS.
- 9 years of experience in research on Internet of Things (IoT) protocols and devices. Special focus on IoT Lifecycle Management perspective and driving those solutions to standards. Standardizing our solutions in the Capillary Networks area and contributing to Ericsson's patent portfolio.
- Acting as domain expert towards Product Units. Some cases involve Kone, Husqvarna, Vaisala and Maersk.
- During my time as researcher in Ericsson I have authored more than [25 patents](#). Among others, the areas of the inventions are **Internet of Things** and **Distributed Systems**.
- Extensive experience prototyping within Ericsson Research for showrooms like Mobile World Congress. [Evolved Capillary Networks prototype demo in the MWC15](#).
- Worked as coordinator and contributor on several external European and Finnish projects in several roles: FP7 COMMUNE, Massive Scale Machine to Machine (MAMMOTH), DIEM, H2020, EIT-HII.
- Worked in device design and prototype manufacture for a Distributed Sensor and Actuator Network.
- Implementation and research in the Internet of Things (IoT), OMA Lightweight M2M (LWM2M), Constrained Application Protocol (CoAP), ZigBee, Wireless Sensor Networks and embedded devices area. Pursuing those activities in the relevant Standard bodies.
- Implementing a prototype for the decentralization of Session Initiation Protocol (SIP) telecommunications.
- Supervised 6 Master's Theses students and 2 PhDs.

Standards Organisations

Co-Chair of the Constrained RESTful Environments (CoRE) Working Group at the IETF

Standardization of the Constrained Application Protocol (CoAP), a specialised web transfer protocol for constrained IoT devices. <https://tools.ietf.org/wg/core/>

As co-chair I am responsible of coordinating circa 60 engineers from different companies to provide high-quality technical specifications.

Open Mobile Alliance - Lightweight Machine to Machine (LWM2M)

[OMA-LWM2M](#) is another group to which I regularly contribute. LWM2M is a protocol built on top of CoAP, adding a set of interfaces for managing devices. There I am a contributor and currently BoD alternate member.

IPSO Smart Objects, Main contributor

Creating data models (in XML) for Internet of Things. <https://github.com/IPSO-Alliance/pub>

Those are used on IKEA Tradfri and others <http://jaimejim.github.io/tradfri/>

Industrial Internet Consortium (IIC)

I am one of the four authors of the [Industrial Internet Consortium \(IIC\) Connectivity Framework specification](#)

Occupation or position held	Software Engineer
Main activities and responsibilities	Researching security in online banking transactions, Smartcard research, setting Unix and Windows environments, Network Set Up and Administration, management of Virtual Machines as well as translation of technical papers.
Employer	University Carlos III and Department of IT Security Evaluation, www.evalues.es
Type of business or sector	Education
Dates	October 2006 – May 2007
Occupation or position held	Trainee
Main activities and responsibilities	Software installation, maintenance and technical support for Windows workstations.
Employer	Viajes IberoService, www.iberoservice.com
Type of business or sector	Tourism
EDUCATION	
Dates	2009 - 2011
Title of qualification awarded	Master's program "Communications Systems, Security and Mobile Computing"
Principal subjects/occupational skills to be covered	Advanced Internetworking, Internet Security and Privacy, ICT Entrepreneurship and Venture Creation, Network Services, Advanced Routing in Packet Networks, Management of Networks and Networked Systems, Security in Mobile and Wireless Networks.
Scholarships	NordPlus Scholarship (2010-2011) granted for excellent EU/EEA citizens, funded by the Nordic Council of Ministers.
Name and type of organisation providing education and training	KTH Royal Institute of Technology, School of Information and Communication Technology, Stockholm, Sweden, www.kth.se Aalto University, School of Science and Technology, Helsinki, Finland, www.aalto.fi
Dates	2003 – 2007
Title of qualification awarded	Graduate Computer Engineer, Major: Programming
Principal subjects/occupational skills to be covered	Programming, Intra/Inter-domain Routing, Databases, Software Development, Computer Architecture and Organization.
Name and type of organisation providing education and training	"Carlos III" University, School of Computing, Madrid, Spain, www.uc3m.es
PERSONAL SKILLS AND COMPETENCES	
LANGUAGES	
Spanish	Mother tongue
English	Fluent Certificate of Proficiency in English (C2.2)
German	Advanced (C1)
Italian	Advanced (C1.2)

COMPUTER / TECHNICAL SKILLS
AND COMPETENCES

- Workplace: comfortable in small self-managed teams or larger organizations like those part of standard bodies. Used to an Agile workplace environment.
- Programming: NodeJs, Java, Python, Robot, Git, bash.
- Modelling: JSON, XML, YANG, CBOR.
- Text: VIM, Markdown, LaTeX, Gantt, Matlab, etc..
- Emulation/Simulation: OverSim, Docker, OMNet, GNS3 and VBox.
- General: MacOSX, Ubuntu and Windows systems.

OTHER SKILLS
AND COMPETENCES

Co-ideating and planning projects, innovation, managing and supervising projects, coordinating among different partners and institutions, budget projecting, assuring material/ technical / human resources.

INTERESTS

I co-own a popular Neapolitan restaurant in Helsinki – www.capperi.fi . I read a lot, love to cook and eat. I am chatty. I also love hiking but the long winters make it complicated.